

FILEID**PEAK

K 14

PPPPPPPP	EEEEEEEEE	AAAAAAA	KK	KK
PPPPPPPP	EEEEEEEEE	AAAAAA	KK	KK
PP	PP	EE	AA	KK
PP	PP	EE	AA	KK
PP	PP	EE	AA	KK
PP	PP	EE	AA	KK
PPPPPPPP	EEEEEEEEE	AA	AA	KKKKKK
PPPPPPPP	EEEEEEEEE	AA	AA	KKKKKK
PP	EE	AA	AAAAAAA	KK
PP	EE	AA	AAAAAAA	KK
PP	EE	AA	AA	KK
PP	EE	AA	AA	KK
PP	EEEEEEEEE	AA	AA	KK
PP	EEEEEEEEE	AA	AA	KK

....
....
....
....

FFFFFFF	000000	RRRRRRR
FFFFFFF	000000	RRRRRRR
FF	00	00 RR RR
FF	00	00 RR RR
FF	00	00 RR RR
FF	00	00 RR RR
FFFFFFF	00	00 RRRRRRR
FFFFFFF	00	00 RRRRRRR
FF	00	00 RR RR
FF	00	00 RR RR
FF	00	00 RR RR
FF	00	00 RR RR
FF	00	00 RR RR
FF	000000	RR RR
FF	000000	RR RR

!File FPEAK.FOR
Version 'V04-000'

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Subroutine PEAK(ITABLE,INPUT,INLAST,INPTR,OUTPUT,IDLMO,NPEAKS)
!A trivial peak-picking routine. The calling sequence is patterned
!after the LSPLIB routine PEAK.

```
Integer*4 ITABLE(10),OUTPUT(2,IDLMO),INLAST,INPTR,IDLMO,NPEAK  
Integer*2 INPUT(1)  
Parameter NOISE = 5 !Noise value = 5 A/D units
```

!Initialize some parameters, if necessary
If(NPEAKS .lt. 0) NPEAKS = 0
If(INPTR .lt. 0) INPTR = 0

!First time thru?
If(INPTR .lt. INLAST .and. ITABLE(1) .eq. 0) Then
 INPTR = INPTR + 1
 ITABLE(1) = 1 !Assume we're rising
 ITABLE(2) = 1 !first point
 ITABLE(3) = INPUT(INPTR)
End If

!Any data to process?
If(INPTR .lt. INLAST) Then
 Do 10 I = INPTR+1, INLAST
 If(ITABLE(1) .gt. 0) Then !We're rising, look for a fall
 If(INPUT(I) .lt. ITABLE(3)-NOISE) Then !We found a peak
 If(NPEAKS .lt. IDLMO) Then !Any room to store it?
 NPEAKS = NPEAKS + 1
 OUTPUT(1,NPEAKS) = ITABLE(3)
 OUTPUT(2,NPEAKS) = ITABLE(2)
 ITABLE(1) = -1

```
Else                                !No, tell user
    INPTR = I - 1
    NPEAKS = -IDIMO
    Return
End If
End If
Else                                !We're falling, see if we found a valley
    if( INPUT(I) .gt. ITABLE(3)+NOISE ) ITABLE(1) = 1
End If
ITABLE(3) = INPUT(I)
ITABLE(2) = ITABLE(2) + 1
10 End If

INPTR = -1                            !Normal exit all data processed.
Return

End
```

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VAX/VMS V4.0

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